

# Seattle City Council SPUN Committee Briefing

Solid Waste Management Plan Update

May 24, 2011



# In Today's Briefing

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- **Draft recommendations**
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# The Requirement

## Required by RCW 70.95

- All local jurisdictions must have a comprehensive 20 year solid waste management plan.
- Update every 5 years.
  - 1989 Seattle's 1<sup>st</sup>, separate from King County
  - 1998 Seattle's 2<sup>nd</sup>
  - 2004/5 Amending the 1998 plan
- State guidelines augment the RCW for content.
  - Examples: Facilities inventory, CIP projection, financing, recycling strategies, SEPA checklist, etc.

# Past Highlights

- **60% recycling goal**
- **Long haul disposal**
- **Waste prevention and product stewardship**
- **Direction to renovate stations**

# Current timeline

Dates	Milestones
Jun 2011	•Complete first draft of document with SPU recommendations.
Aug 31, 2011	•Complete SPU's stakeholder and public review. •SWAC involvement is must-have. •Initiate SEPA.
Oct 31, 2011	•Complete changes to document per stakeholder review.
Nov 30, 2011	•Submit Preliminary Draft to Washington State Department of Ecology. Up to 120 days review.
Mar 31, 2012	•Complete revisions per Ecology comments. •Complete SEPA.
Apr, 2012	•Transmit Final Draft to City Council with resolution. •Council holds public hearing.
Jun, 2012	•Submit Final Draft to Ecology. Final approval within 45 days.

# Process for this update

## Recycling Potential Assessment (RPA)

- ❑ A model that forecasts potential increased recycling from packages of programs.
- ❑ Uses data from demographic and economic forecasts, waste composition studies, and assumptions for new programs.
- ❑ Results include forecasted recycling rates and net costs.
- ✓ Full economic analysis including environmental benefits coming this July.

# Recommendations Highlights

## Recommendations include

- Recycling goal revision.
- New programs or actions to increase waste prevention and recycling rate.
- Construction and Demolition Debris (C&D) recycling goal.
- Capital Improvement Plan.

# Recommendations Highlights

## Recycling Goal

- **60% by 2015**
  - Extend from 2012
- **70% by 2022**
  - Move up from 2025



# Recommendations Highlights

## New Programs and Actions

### Waste Prevention

- **Advance Recovery Fee Framework**
  - Shifting more cost away from general rate payers to those responsible for their products.
  - Target materials: toxic, easiest for product stewardship, largest disposal volumes.
  - Approaches: Take-back programs, producer fees, advance recovery fees
  - Strategic development – local, state, national

# Recommendations Highlights

## New Programs and Actions

### Recycling – Municipal Solid Waste (MSW)

- **Target materials already recyclable**
  - Food waste and compostable paper
  - Yard waste
  - Recyclable paper
  - Other traditional “curb” recycling: plastics, beverage containers, etc.
  - C&D recycling in MSW (self haul to City stations and commercial garbage)

# Recommendations Highlights

## New Programs and Actions

- **Other target materials in MSW**
  - Carpet
  - Textiles
  - Plastic film wrap
  - Pet waste and diapers

# Recommendations Highlights

## New Programs and Actions

### Main Approaches

- Education
- Enforcement
- Bans/mandatory
- Product Stewardship
- New practices
  - Textile recycling
  - Pet waste and diaper composting

# Recommendations Highlights

## New Programs and Actions

### Program Start Year by Sector

Start	Program	SF	MF	SH	Com
2010	Recyclable or compostable container food program				*
2012	Multifamily Universal Organics Service		*		
	Increase Res Ban Enforcement	*	*		
	Take - Back program for Carpet			*	*
	Expand Comm Inspect for Paper Ban				*
	Junk Mail, Yellow Pages Opt Out	*	*		
2013	Ban of Asphalt Paving, Concrete, Bricks			*	*
	Floor Sorting of C&D Loads (>50%)			*	
	Enhanced Commercial Organics				*
	New Education - Com (small bus free recyc carts)				*
	New Education - SH (audit top S-haulers)			*	
	Restore Education for All Sectors	*	*	*	*

SF – Single Family    SH – Self Haul

MF – Multi Family    Com - Commercial

# Recommendations Highlights

## New Programs and Actions

### Program Start Year by Sector, cont.

Start	Program	SF	MF	SH	Com
2014	Residential organics ban single family	*			
	Reusable bag campaign	*	*		
	Ban Asphalt Roofing Shingles			*	
	Extend Com Ban to Add'l Mat				*
	Ban Clean Wood - SH, Com			*	*
	Plastic film ban			*	*
2015	Multifamily organic waste ban		*		
	Plastic bag ban (from stores)	*	*		
	<b>EOW Res garbage collection every other week</b>	*			
	Product Stewardship Solution (paint)	*	*	*	*
	Divert reusables from self haul			*	

# Recommendations Highlights New Programs and Actions

## Program Start Year by Sector, cont.

Start	Program	SF	MF	SH	Com
2016	Market development for textiles	*	*		
	Ban commercial organics				*
	Pre-scale recycling			*	
2017	Ban all C&D in commercial				*
2020	Pet Waste & Diapers composting	*	*		

# **Recommendations Highlights New Programs and Actions**

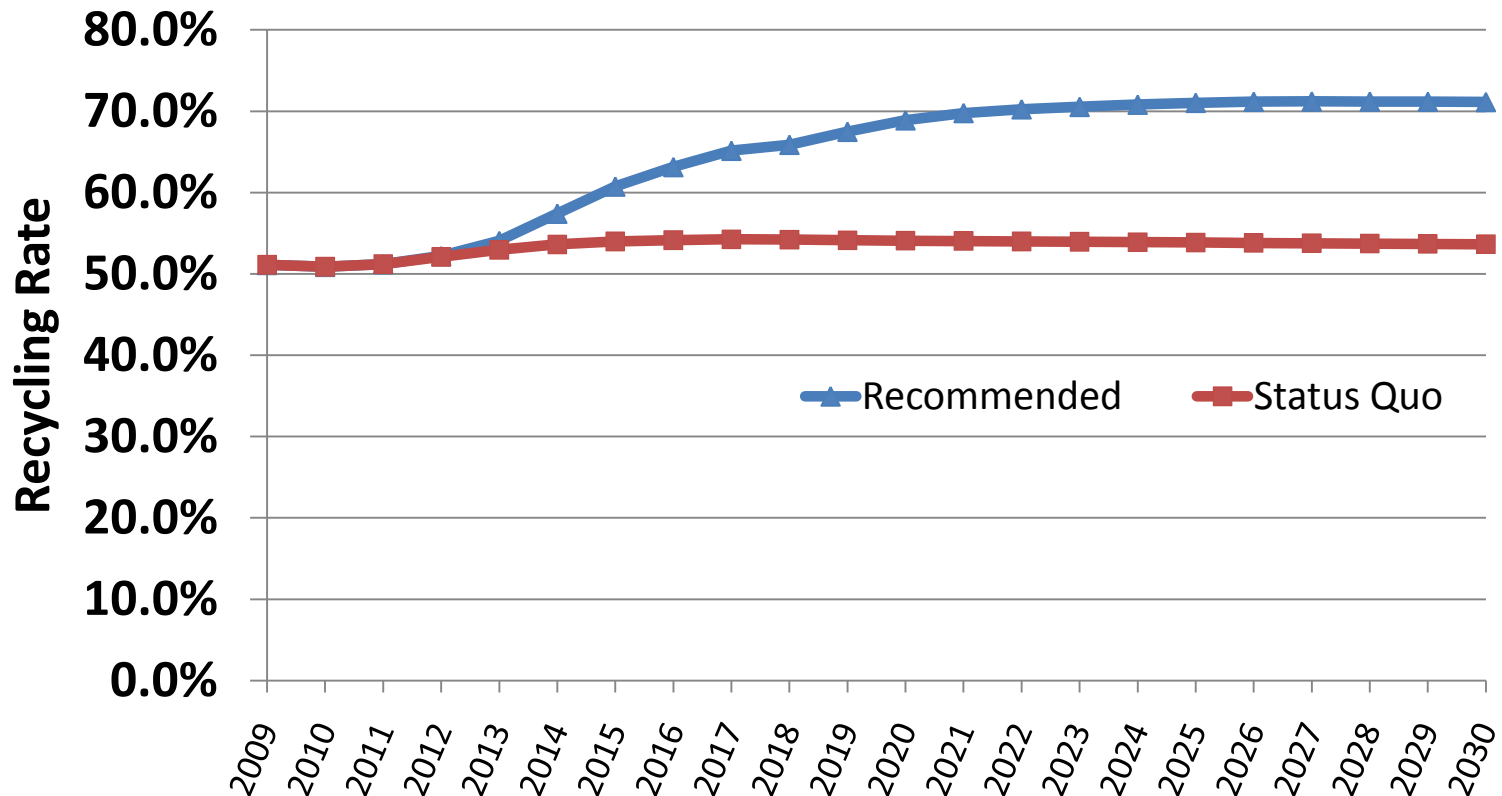
## **Other MSW Recommendations**

- **Continue all status quo programs.**
- **No burning of mixed solid waste. No put-or-pay systems.**
- **Continue with capital facilities plans.**
  - Rebuild south and north transfer stations



# Recommendations Highlights

## MSW recycling rate projections



# Recommendations Highlights

## MSW recycling rate projections

	Status Quo - Detail					Recommended - Detail				
Year	SF	MF	SH	Com	Overall	SF	MF	SH	Com	Overall
2009 Actual	68.7%	27.0%	16.7%	54.9%	51.1%	68.7%	27.0%	16.7%	54.9%	51.1%
<b>2012</b>	<b>70.2%</b>	<b>30.4%</b>	<b>17.6%</b>	<b>56.3%</b>	<b>52.1%</b>	<b>70.5%</b>	<b>31.0%</b>	<b>16.7%</b>	<b>56.2%</b>	<b>52.2%</b>
<b>2015</b>	<b>71.5%</b>	<b>38.2%</b>	<b>19.5%</b>	<b>58.2%</b>	<b>54.0%</b>	<b>78.4%</b>	<b>42.5%</b>	<b>32.9%</b>	<b>63.2%</b>	<b>60.8%</b>
<b>2020</b>	<b>71.7%</b>	<b>41.2%</b>	<b>19.6%</b>	<b>58.4%</b>	<b>54.1%</b>	<b>82.6%</b>	<b>53.0%</b>	<b>45.5%</b>	<b>72.3%</b>	<b>68.9%</b>
<b>2025</b>	<b>71.7%</b>	<b>41.3%</b>	<b>19.6%</b>	<b>58.4%</b>	<b>53.9%</b>	<b>85.4%</b>	<b>55.3%</b>	<b>45.6%</b>	<b>75.1%</b>	<b>71.0%</b>
<b>2030</b>	<b>71.7%</b>	<b>41.3%</b>	<b>19.6%</b>	<b>58.4%</b>	<b>53.9%</b>	<b>86.4%</b>	<b>55.7%</b>	<b>45.6%</b>	<b>75.1%</b>	<b>71.1%</b>

SF – Single Family    SH – Self Haul  
 MF – Multi Family    Com - Commercial

# Recommendations Highlights

## Construction & Demolition Debris

### First time setting a goal for C&D recycling (outside of MSW)

- 70% Recycling by 2020
  - 2009 Status Quo - 56% Recycling with another 4% “beneficially used” such as clean wood to fuel

# Recommendations Highlights

## Construction & Demolition Debris

### Main Approaches

- Keep on with education and promotion of industry programs - LEED and Built Green
- Expand voluntary programs for hybrid deconstruction and salvage assessments
- Create certification and inspection of C&D processing facilities
- Phase material bans
  - Education and outreach in first year
  - Enforcement added second year

# Recommendations Highlights

## Construction & Demolition Debris

### Materials Disposal Bans Start Dates

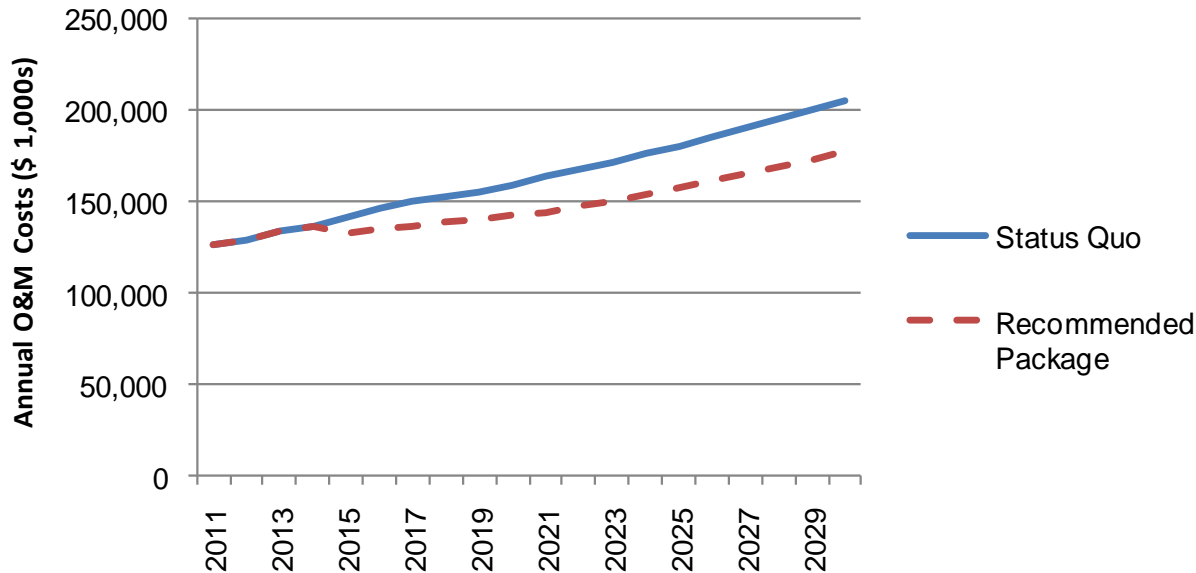
Start	Program
2012	Asphalt, bricks, concrete paving (ABC)*
	Metals and other ferrous
	Cardboard
2013	Carpet scrap
	Plastic film
	Clean wood
	Clean Gypsum
2014	Tear-off asphalt shingles

\*Already legislated

# Recommendations Highlights

## Cost Impacts

**Projected O&M spending is lower**



# Public comments welcome this summer during stakeholder review process.

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